Release notes for ENDF/B Development photoat-074_W_000 evaluation



October 13, 2016

- checkr Warnings:
 - 1. A previous error halted parsing of the current section $MAT=7400,\ MF=1,\ MT=451\ (1)$: Parsing stopped

ERROR(S) FOUND IN MAT=7400, MF= 1, MT=451
SECTION CANNOT BE CHECKED FROM SEQUENCE NUMBER 165 TO 199

- checkr Errors:
 - 1. A variable is outside the allowed ENDF range MAT=7400, MF=1, MT=451 (0): Variable range

ERROR(S) FOUND IN MAT=7400, MF= 1, MT=451
MOD = 3 OUT OF RANGE 0 - 1 RECORD NUMBER 165

2. Missing a section in directory so your directory is messed up. This error will break everything else MAT=7400, MF=23, MT=501 (0): Directory (b)

ERROR(S) FOUND IN MAT=7400, MF=23, MT=501
SECTION 23/501 NOT IN DIRECTORY RECORD NUMBER 201

3. Missing a section in directory so your directory is messed up. This error will break everything else MAT=7400, MF=23, MT=502 (0): Directory (b)

ERROR(S) FOUND IN MAT=7400, MF=23, MT=502
SECTION 23/502 NOT IN DIRECTORY RECORD NUMBER 1037

4. Missing a section in directory so your directory is messed up. This error will break everything else MAT=7400, MF=23, MT=504 (0): Directory (b)

ERROR(S) FOUND IN MAT=7400, MF=23, MT=504
SECTION 23/504 NOT IN DIRECTORY RECORD NUMBER 1373

5. Missing a section in directory so your directory is messed up. This error will break everything else $MAT=7400,\ MF=23,\ MT=515\ (0)$: Directory (b)

ERROR(S) FOUND IN MAT=7400, MF=23, MT=515
SECTION 23/515 NOT IN DIRECTORY RECORD NUMBER 1414

6. Missing a section in directory so your directory is messed up. This error will break everything else MAT=7400, MF=23, MT=516 (0): Directory (b)

ERROR(S) FOUND IN MAT=7400, MF=23, MT=516
SECTION 23/516 NOT IN DIRECTORY RECORD NUMBER 1449

7. Missing a section in directory so your directory is messed up. This error will break everything else MAT=7400, MF=23, MT=517 (0): Directory (b)

ERROR(S) FOUND IN MAT=7400, MF=23, MT=517 SECTION 23/517 NOT IN DIRECTORY

RECORD NUMBER 1504

8. Missing a section in directory so your directory is messed up. This error will break everything else

MAT = 7400, MF = 23, MT = 522 (0): Directory (b)

ERROR(S) FOUND IN MAT=7400, MF=23, MT=522 SECTION 23/522 NOT IN DIRECTORY

RECORD NUMBER 1546

9. Missing a section in directory so your directory is messed up. This error will break everything else $MAT=7400,\ MF=23,\ MT=534\ (0)$: Directory (b)

ERROR(S) FOUND IN MAT=7400, MF=23, MT=534 SECTION 23/534 NOT IN DIRECTORY

RECORD NUMBER 1977

10. Missing a section in directory so your directory is messed up. This error will break everything else

MAT=7400, MF=23, MT=535 (0): Directory (b)

ERROR(S) FOUND IN MAT=7400, MF=23, MT=535 SECTION 23/535 NOT IN DIRECTORY

RECORD NUMBER 1998

11. Missing a section in directory so your directory is messed up. This error will break everything else MAT=7400, MF=23, MT=536 (0): Directory (b)

ERROR(S) FOUND IN MAT=7400, MF=23, MT=536 SECTION 23/536 NOT IN DIRECTORY

RECORD NUMBER 2022

12. Missing a section in directory so your directory is messed up. This error will break everything else MAT=7400, MF=23, MT=537 (0): Directory (b)

ERROR(S) FOUND IN MAT=7400, MF=23, MT=537 SECTION 23/537 NOT IN DIRECTORY

RECORD NUMBER 2046

13. Missing a section in directory so your directory is messed up. This error will break everything else MAT=7400, MF=23, MT=538 (0): Directory (b)

ERROR(S) FOUND IN MAT=7400, MF=23, MT=538 SECTION 23/538 NOT IN DIRECTORY

RECORD NUMBER 2070

14. Missing a section in directory so your directory is messed up. This error will break everything else MAT=7400, MF=23, MT=539 (0): Directory (b)

ERROR(S) FOUND IN MAT=7400, MF=23, MT=539 SECTION 23/539 NOT IN DIRECTORY

RECORD NUMBER 2096

15. Missing a section in directory so your directory is messed up. This error will break everything else $MAT=7400,\ MF=23,\ MT=540\ (0)$: Directory (b)

ERROR(S) FOUND IN MAT=7400, MF=23, MT=540 SECTION 23/540 NOT IN DIRECTORY

RECORD NUMBER 2125

16. Missing a section in directory so your directory is messed up. This error will break everything else

MAT = 7400, MF = 23, MT = 541 (0): Directory (b)

ERROR(S) FOUND IN MAT=7400, MF=23, MT=541 SECTION 23/541 NOT IN DIRECTORY

RECORD NUMBER 2155

17. Missing a section in directory so your directory is messed up. This error will break everything else

MAT = 7400, MF = 23, MT = 542 (0): Directory (b)

ERROR(S) FOUND IN MAT=7400, MF=23, MT=542 SECTION 23/542 NOT IN DIRECTORY

RECORD NUMBER 2187

18. Missing a section in directory so your directory is messed up. This error will break everything else

 $\dot{MAT} = 7400$, MF = 23, MT = 543 (0): Directory (b)

ERROR(S) FOUND IN MAT=7400, MF=23, MT=543 SECTION 23/543 NOT IN DIRECTORY

RECORD NUMBER 2218

19. Missing a section in directory so your directory is messed up. This error will break everything else MAT=7400, MF=23, MT=544 (0): Directory (b)

ERROR(S) FOUND IN MAT=7400, MF=23, MT=544 SECTION 23/544 NOT IN DIRECTORY

RECORD NUMBER 2248

20. Missing a section in directory so your directory is messed up. This error will break everything else MAT=7400, MF=23, MT=545 (0): Directory (b)

ERROR(S) FOUND IN MAT=7400, MF=23, MT=545 SECTION 23/545 NOT IN DIRECTORY

RECORD NUMBER 2281

21. Missing a section in directory so your directory is messed up. This error will break everything else $MAT=7400,\ MF=23,\ MT=546\ (0)$: Directory (b)

ERROR(S) FOUND IN MAT=7400, MF=23, MT=546 SECTION 23/546 NOT IN DIRECTORY

RECORD NUMBER 2315

22. Missing a section in directory so your directory is messed up. This error will break everything else MAT=7400, MF=23, MT=547 (0): Directory (b)

ERROR(S) FOUND IN MAT=7400, MF=23, MT=547 SECTION 23/547 NOT IN DIRECTORY

RECORD NUMBER 2362

23. Missing a section in directory so your directory is messed up. This error will break everything else $MAT=7400,\ MF=23,\ MT=548\ (0)$: Directory (b)

ERROR(S) FOUND IN MAT=7400, MF=23, MT=548 SECTION 23/548 NOT IN DIRECTORY

RECORD NUMBER 2410

24. Missing a section in directory so your directory is messed up. This error will break everything else

MAT = 7400, MF = 23, MT = 549 (0): Directory (b)

ERROR(S) FOUND IN MAT=7400, MF=23, MT=549 SECTION 23/549 NOT IN DIRECTORY

RECORD NUMBER 2467

25. Missing a section in directory so your directory is messed up. This error will break everything else

MAT = 7400, MF = 23, MT = 550 (0): Directory (b)

ERROR(S) FOUND IN MAT=7400, MF=23, MT=550 SECTION 23/550 NOT IN DIRECTORY

RECORD NUMBER 2524

26. Missing a section in directory so your directory is messed up. This error will break everything else

MAT = 7400, MF = 23, MT = 551 (0): Directory (b)

ERROR(S) FOUND IN MAT=7400, MF=23, MT=551 SECTION 23/551 NOT IN DIRECTORY

RECORD NUMBER 2562

27. Missing a section in directory so your directory is messed up. This error will break everything else MAT = 7400, MF = 23, MT = 552 (0): Directory (b)

ERROR(S) FOUND IN MAT=7400, MF=23, MT=552 SECTION 23/552 NOT IN DIRECTORY

RECORD NUMBER 2607

28. Missing a section in directory so your directory is messed up. This error will break everything else MAT = 7400, MF = 23, MT = 553 (0): Directory (b)

ERROR(S) FOUND IN MAT=7400, MF=23, MT=553 SECTION 23/553 NOT IN DIRECTORY

RECORD NUMBER 2652

29. Missing a section in directory so your directory is messed up. This error will break everything else MAT = 7400, MF = 23, MT = 554 (0): Directory (b)

ERROR(S) FOUND IN MAT=7400, MF=23, MT=554 SECTION 23/554 NOT IN DIRECTORY

RECORD NUMBER 2716

30. Missing a section in directory so your directory is messed up. This error will break everything else MAT = 7400, MF = 23, MT = 559 (0): Directory (b)

ERROR(S) FOUND IN MAT=7400, MF=23, MT=559 SECTION 23/559 NOT IN DIRECTORY

RECORD NUMBER 2780

31. Missing a section in directory so your directory is messed up. This error will break everything else MAT = 7400, MF = 27, MT = 502 (0): Directory (b)

ERROR(S) FOUND IN MAT=7400, MF=27, MT=502 SECTION 27/502 NOT IN DIRECTORY

RECORD NUMBER 2825

32. Missing a section in directory so your directory is messed up. This error will break everything else MAT=7400, MF=27, MT=504 (0): Directory (b)

ERROR(S) FOUND IN MAT=7400, MF=27, MT=504 SECTION 27/504 NOT IN DIRECTORY

RECORD NUMBER 2878

33. Missing a section in directory so your directory is messed up. This error will break everything else MAT=7400, MF=27, MT=505 (0): Directory (b)

ERROR(S) FOUND IN MAT=7400, MF=27, MT=505 SECTION 27/505 NOT IN DIRECTORY

RECORD NUMBER 2933

34. Missing a section in directory so your directory is messed up. This error will break everything else MAT=7400, MF=27, MT=506 (0): Directory (b)

ERROR(S) FOUND IN MAT=7400, MF=27, MT=506 SECTION 27/506 NOT IN DIRECTORY

RECORD NUMBER 3083

- fudge-4.0 Warnings:
 - 1. generic warning message reaction label 0: W + gamma [coherent] / Product: gamma (Error # 0): Warning

WARNING: coherentScattering is not a valid distribution component for 2-body reaction

2. FIXME: Generic fudge unimplemented message reaction label 0: W + gamma [coherent] / Product: gamma (Error # 2): Generic unimp (c)

WARNING: Checking not yet implemented for pointwise type data

3. generic warning message reaction label 1: W + gamma [incoherent] / Product: gamma (Error # 0): Warning

WARNING: incoherentScattering is not a valid distribution component for 2-body reaction

4. FIXME: Generic fudge unimplemented message reaction label 1: W + gamma [incoherent] / Product: gamma (Error # 2): Generic unimp (c)

WARNING: Checking not yet implemented for piecewise type data

5. Cross sections do not correctly sum up properly according to an ENDF (or equivalent) sumrule summedReaction label 26: total (Error # 0): Sumrule

WARNING: Cross section does not match sum of linked reaction cross sections! Max diff: 100.00%

6. Cross sections do not correctly sum up properly according to an ENDF (or equivalent) sumrule summedReaction label 28: photoelectric absorption (Error # 0): Sumrule

- fudge-4.0 Errors:
 - 1. Calculated and tabulated thresholds don't agree reaction label 0: $W+gamma\ [coherent]\ /\ Cross\ section$: (Error # 0): Threshold mismatch

WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 1. eV!

2. 2-body reaction not in center-of-mass frame reaction label 0: W + gamma [coherent] / Product: gamma (Error # 1): 2-body not in COM

WARNING: 2-body reaction not in center-of-mass frame!

3. Calculated and tabulated thresholds don't agree reaction label 1: $W+gamma\ [incoherent]\ /\ Cross\ section:\ (Error\ \#\ 0)$: Threshold mismatch

WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 1. eV!

4. 2-body reaction not in center-of-mass frame reaction label 1: $W+gamma\ [incoherent]\ /\ Product:\ gamma\ (Error\ \#\ 1)$: 2-body not in COM

WARNING: 2-body reaction not in center-of-mass frame!

5. Energy range of data set does not match cross section range reaction label 1: W + gamma [incoherent] / Product: gamma / Distribution incoherentScattering - piecewise: (Error # 0): Domain mismatch (a)

WARNING: Domain doesn't match the cross section domain: (0.0 -> 1000000000.0) vs (1.0 -> 1e+11)

WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 2.044e6 eV!

WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 1.022e6 eV!

8. Calculated and tabulated thresholds don't agree reaction label 4: e- + W1s1/2 / Cross section: (Error # 0): Threshold mismatch

WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 69689. eV!

9. Calculated and tabulated thresholds don't agree reaction label 5: e- + W2s1/2 / Cross section: (Error # 0): Threshold mismatch

WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 12077. eV!

- 10. Calculated and tabulated thresholds don't agree reaction label 6: e- + W2p1/2 / Cross section: (Error # 0): Threshold mismatch
 - WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 11573. eV!
- 11. Calculated and tabulated thresholds don't agree reaction label 7: e- + W2p3/2 / Cross section: (Error # 0): Threshold mismatch
 - WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 10206. eV!
- 12. Calculated and tabulated thresholds don't agree reaction label 8: e- + W3s1/2 / Cross section: (Error # 0): Threshold mismatch
 - WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 2796.5 eV!
- 13. Calculated and tabulated thresholds don't agree reaction label 9: e- + W3p1/2 / Cross section: (Error # 0): Threshold mismatch
 - WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 2567.8 eV!
- 14. Calculated and tabulated thresholds don't agree reaction label 10: e- + W3p3/2 / Cross section: (Error # 0): Threshold mismatch
 - WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 2271.2 eV!
- 15. Calculated and tabulated thresholds don't agree reaction label 11: e- + W3d3/2 / Cross section: (Error # 0): Threshold mismatch
 - WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 1881.1 eV!
- 16. Calculated and tabulated thresholds don't agree reaction label 12: e- + W3d5/2 / Cross section: (Error # 0): Threshold mismatch
 - WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 1816.2 eV!
- 17. Calculated and tabulated thresholds don't agree reaction label 13: e- + W4s1/2 / Cross section: (Error # 0): Threshold mismatch
 - WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 584.7 eV!
- 18. Calculated and tabulated thresholds don't agree reaction label 14: e- + W4p1/2 / Cross section: (Error # 0): Threshold mismatch
 - WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 488.61 eV!
- 19. Calculated and tabulated thresholds don't agree reaction label 15: e- + W4p3/2 / Cross section: (Error # 0): Threshold mismatch
 - WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 419.62 eV!
- 20. Calculated and tabulated thresholds don't agree reaction label 16: e- + W4d3/2 / Cross section: (Error # 0): Threshold mismatch
 - WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 260.05 eV!

- 21. Calculated and tabulated thresholds don't agree reaction label 17: e- + W4d5/2 / Cross section: (Error # 0): Threshold mismatch
 - WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 247.34 eV!
- 22. Calculated and tabulated thresholds don't agree reaction label 18: e- + W4f5/2 / Cross section: (Error # 0): Threshold mismatch
 - WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 45.61 eV!
- 23. Calculated and tabulated thresholds don't agree reaction label 19: e- + W4f7/2 / Cross section: (Error # 0): Threshold mismatch
 - WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 43.25 eV!
- 24. Calculated and tabulated thresholds don't agree reaction label 20: e- + W5s1/2 / Cross section: (Error # 0): Threshold mismatch
 - WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 85.14 eV!
- 25. Calculated and tabulated thresholds don't agree reaction label 21: e- + W5p1/2 / Cross section: (Error # 0): Threshold mismatch
 - WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 56.02 eV!
- 26. Calculated and tabulated thresholds don't agree reaction label 22: e- + W5p3/2 / Cross section: (Error # 0): Threshold mismatch
 - WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 45.65 eV!
- 27. Calculated and tabulated thresholds don't agree reaction label 23: e- + W5d3/2 / Cross section: (Error # 0): Threshold mismatch
 - WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 8.27 eV!
- 28. Calculated and tabulated thresholds don't agree reaction label 24: e- + W5d5/2 / Cross section: (Error # 0): Threshold mismatch
 - WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 7.41 eV!
- 29. Calculated and tabulated thresholds don't agree reaction label 25: e- + W6s1/2 / Cross section: (Error # 0): Threshold mismatch
 - WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 7.7 eV!
- 30. Calculated and tabulated thresholds don't agree summedReaction label 26: total / Cross section: (Error # 0): Threshold mismatch
 - WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 1. eV!
- 31. Calculated and tabulated thresholds don't agree summedReaction label 27: pair product / Cross section: (Error # 0): Threshold mismatch

WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 1.022e6 eV!

32. Calculated and tabulated thresholds don't agree $summedReaction\ label\ 28:\ photoelectric\ absorption\ /\ Cross\ section:\ (Error\ \#\ 0):\ Threshold\ mismatch$

WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 7.41 eV!

- xsectplotter Warnings:
 - 1. Encountered runtime warning in x sectplotter or Fudge or matplotlib $\it Error:\ Runtime\ Warning$

stderr while processing crossSection

/usr/local/lib/python2.7/site-packages/matplotlib-1.3.1-py2.7-linux-x86_64.egg/matplotlib/pyplot.py:412: Runtime ... [3 more lines]